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In The Claims

Please replace claims 1, 2, 7 and 13 as shown below. A marked up version of the amended claims is attached to this Amendment.

1. (Amended) A system for distributing digital subscriber line

a central office for receiving video signals from a video source, the

at least one end user location having a second XDSL transmission unit

(XDSL) signals to end users over a telephone wiring plant comprising:

data signals, and receiving data signals from end users;

central office including a first XDSL transmission unit for transmitting the received

video signals on a twisted pair copper cable along with other telephony and digital

for receiving video signals from the twisted pair copper cable and transmitting data

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quality.

9 signals to the central office; and 10 a regenerator connected to the twisted pair copper cable and located 11 a predetermined distance from the central office, the regenerator comprising: a receiver for receiving XDSL signals transmitted on the 12 13 twisted pair copper cable from either the central office or the end user; a decoder for decoding the payload of a received XDSL signal 14 into base data: 15 16 an encoder for repackaging and encoding the base data into a 17 desired protocol format; and 18 a line driver for retransmitting the encoded signal onto the

The system of claim 1 wherein the central office 2. (Amended) transmits XDSL signal using an asynchronous transfer mode (ATM) protocol, and the regenerator encoder is arranged to selectively repackage the base data into either the ATM protocol format or a direct transmission protocol format depending on the protocol requirements of the destination original terminal.

twisted pair copper cable for distribution to an original destination, wherein

the predetermined distance for the location of the regenerator corresponds to

a point on the twisted pair cable where the signal-to-noise ratio of a

transmitted XDSL signal reaches a threshold of minimum acceptable signal

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1	7. (Amended) A method for distributing digital subscriber line
2	(XDSL) signals to end users over a telephone wiring plant comprising:
3	receiving video signals at a central office from a video source;
4	transmitting the received video signals on a twisted pair copper cable
5	along with other telephony and digital data signals as an XDSL type signal to a
6	terminal located at an end user site, and receiving data signals on the twisted pair
7	copper cable at the central office from an end user terminal;
8	coupling a signal regenerator unit to the twisted pair copper cable at
9	a distance from the central office corresponding to a point on the twisted pair cable
10	where the signal-to-noise ratio of a transmitted XDSL signal reaches a threshold of
11	minimum acceptable signal quality;
12	receiving transmitted XDSL signals at the regenerator, and decoding
13	the received signals into base data;
14	repackaging and encoding the base data into an XDSL signal having
15	a desired protocol format; and
16	retransmitting the XDSL signal to the end user terminal

2 (XDSL) signal type signal distribution system, the distribution system including a 3 central office for transmitting video signals on a twisted pair copper cable along with 4 other telephony and digital data signals to at least one end user location, the 5 regenerator comprising: 6 a receiver for receiving XDSL signals transmitted on the twisted pair 7 copper cable from either the central office or the end user; 8 a decoder for decoding the payload of a received XDSL signal into 9 base data; 10 an encoder for repackaging and encoding the base data into a desired protocol format; and 11 12 a line driver for retransmitting the encoded signal onto the twisted pair

13. (Amended) A regenerator for use in a digital subscriber line

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copper cable for distribution to an original destination, wherein a predetermined

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- 14 distance for the location of the regenerator corresponds to a point on the twisted pair
- 15 cable where the signal-to-noise ratio of a transmitted XDSL signal reaches a threshold
- of minimum acceptable signal quality.